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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) For use in a telecommunications network having a physical layer which includes Asynchronous Transfer Mode (ATM) entities, a call layer, and a connection layer, with a separation between the call layer and the connection layer whereby the call layer and the connection layer utilize differing signaling entities in the physical layer, a method comprising:

at a first end node of the network, making an association of associating binding information with connection endpoint information for a first connection end point at a the first end node of the network;

in the call layer, transmitting the binding information and an ATM end system address (AESA) of the first end node to a second end node of the network;

reserving a second connection end point at the second end node;
sending a connection request from the call layer to the connection layer, the
connection request including the binding information and the AESA of the first end node;
routing connection layer signaling through the connection layer to the first end node;

at the first end node, using the binding information included in the connection layer signaling to obtain the connection endpoint information for the first connection end point.

- 2. (Currently Amended) The method of claim 431, further comprising: making the association in the connection layer; and the call layer obtaining the binding information from the connection layer.
- 3. (Currently Amended) The method of claim 1, wherein the step of using the binding information to obtain the connection endpoint information for the first connection end point involves, at the first end node, transmitting the binding information to the call layer and at the call layer obtaining the connection endpoint information for the first connection endpoint.

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- 4. (Original) The method of claim 3, further comprising the call layer ordering the connection layer to through connect a switch in the physical layer of the first end node in accordance with the connection endpoint information for the first connection endpoint.
- 5. (Original) The method of claim 1, further comprising through connecting a switch in the physical layer of the first end node in accordance with the connection endpoint information for the first connection endpoint.
- 6. (Original) The method of claim 1, wherein the connection endpoint information for the first connection end point at the first end node of the network is vendor specific for a physical layer entity at the first end node.
- 7. (Original) The method of claim 6, wherein the connection endpoint information is a concatenation of one or more of a node identifier, a hardware cabinet rack, a hardware slot, a hardware port, and a resource.
- 8. (Previously Presented) For use in a telecommunications network having a physical layer which includes Asynchronous Transfer Mode (ATM) entities, a call layer, and a connection layer, with a separation between the call layer and the connection layer whereby the call layer and the connection layer utilize differing signaling entities in the physical layer, a method comprising:

in the call layer, transmitting an ATM end system address (AESA) from a first end node of the network to a second end node of the network, the ATM end system address (AESA) being for a first connection end point at the first end node;

reserving a second connection end point at the second end node;

sending a connection request from the call layer to the connection layer, the connection request including the ATM end system address (AESA) for the first connection end point at the first end node;

routing connection layer signaling through the connection layer to the first end node using the ATM end system address (AESA) for the first connection end point at the first end node;

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at the first end node, using the ATM end system address (AESA) for the first connection end point at the first end node included in the connection layer signaling to through connect an ATM switch in the physical layer to the first connection endpoint.

9. (Currently Amended) For use in a telecommunications network having a physical layer which includes Asynchronous Transfer Mode (ATM) entities, a call layer, and a connection layer, with a separation between the call layer and the connection layer whereby the call layer and the connection layer utilize differing signaling entities in the physical layer, a method comprising:

at a first node of the network. associating a dynamic routing number both with a the first end node of the network and with a first connection end point at the first end node;

in the call layer, transmitting the dynamic routing number to a second end node of the network;

reserving a second connection end point at the second end node;

sending a connection request from the call layer to the connection layer, the connection request including the dynamic routing number;

routing connection layer signaling through the connection layer to the first end node; at the first end node, using the dynamic routing number included in the connection layer signaling to obtain the first connection end point.

- 10. (Original) The method of claim 9, wherein the routing number is an ATM end system address (AESA).
- 11. (Original) The method of claim 9, further comprising routing the connection layer signaling through the connection layer to the first end node using the dynamic routing number.
- 12. (Original) The method of claim 9, further comprising through connecting a switch in the physical layer of the first end node in accordance with the connection endpoint information for the first connection endpoint.

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- 13. (Original) The method of claim 9, wherein the connection endpoint information for the first connection end point at the first end node of the network is vendor specific for a physical layer entity at the first end node.
- 14. (Original) The method of claim 12, wherein the connection endpoint information is a concatenation of one or more of a node identifier, a hardware cabinet rack, a hardware slot, a hardware port, and a resource.
- 15. (Original) For use in a telecommunications network having a physical layer which includes Asynchronous Transfer Mode (ATM) entities, a connection layer, and a connection layer, with a separation between the call layer and the connection layer whereby the call layer and the connection layer utilize differing signaling entities in the physical layer, a method comprising:

including connection endpoint information for a first connection end point of a first end node of the network in an ATM end system address (AESA) of the first end node;

in the call layer, transmitting the ATM end system address (AESA) of the first end node to a second end node of the network;

reserving a second connection end point at the second end node;

sending a connection request from the call layer to the connection layer, the connection request including the ATM end system address (AESA) of the first end node;

routing connection layer signaling through the connection layer to the first end node:

at the first end node, using the connection endpoint information for the first connection end point of the first end node included in the ATM end system address (AESA) of the first end node to through connect an ATM switch in the physical layer to the first connection endpoint.

16. (Original) The method of claim 15, further comprising including the connection endpoint information for the first connection end point of the first end node of the network in a vacant field or unused field of the ATM end system address (AESA) of the first end node.

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- 17. (Original) The method of claim 15, wherein the connection endpoint information for the first connection end point at the first end node of the network is vendor specific for a physical layer entity at the first end node.
- 18. (Original) The method of claim 17, wherein the connection endpoint information is a concatenation of one or more of a node identifier, a hardware cabinet rack, a hardware slot, a hardware port, and a resource.
- 19. (Previously Presented) A telecommunications network including a first end node and a second end node which are connected by separated call and connection layers, wherein the first end node associates binding information with connection endpoint information for a first connection end point at the first end node and transmits the binding information through the call layer to the second end node so that, upon receipt of a connection layer signaling routed from the second end node to the first end node through the connection layer, the first end node uses the binding information carried in the connection layer signaling to obtain the connection endpoint information for the first connection end point.
- 20. (Original) The apparatus of claim 19, further comprising a physical layer having a first ATM switch at the first end node; and wherein the first node through connects the first ATM switch in accordance with the connection endpoint information for the first connection endpoint.
- 21. (Original) The apparatus of claim 20, further comprising a call layer process at the first node which obtains the binding information from the connection layer.
- 22. (Original) The apparatus of claim 19, wherein the first end node further transmits the binding information to a call layer process at the call layer to obtain the connection endpoint information for the first connection endpoint.

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- 23. (Original) The apparatus of claim 20, wherein the first end node orders the connection layer to through connect the ATM switch in the physical layer of the first end node in accordance with the connection endpoint information for the first connection endpoint.
- 24. (Original) The apparatus of claim 19, wherein the connection endpoint information for the first connection end point at the first end node of the network is vendor specific for a physical layer entity at the first end node.
- 25. (Original) The apparatus of claim 24, wherein the connection endpoint information is a concatenation of one or more of a node identifier, a hardware cabinet rack, a hardware slot, a hardware port, and a resource.
- 26. (Previously Presented) A telecommunications network including a first end node and a second end node which are connected by separated call and connection layers, wherein the first end node transmits an ATM end system address (AESA), the ATM end system address (AESA) being for a first connection end point at the first end node, so that upon receipt of connection layer signaling routed through the connection layer from the second end node to the first end node using the ATM end system address (AESA) for the first connection end point at the first end node, the first end node uses the ATM end system address (AESA) for the first connection end point at the first end node to through connect an ATM switch in the physical layer to the first connection endpoint.
- 27. (Original) A telecommunications network including a first end node and a second end node which are connected by separated call and connection layers, wherein the first end node transmits a dynamic routing number to the second end node, the dynamic routing number being associated both with the first end node of the network and with a first connection end point at the first end node, so that upon receipt of connection layer signaling routed through the connection layer from the second end node to the first end node using the dynamic routing number, the first node also uses the dynamic routing number to obtain the first connection end point.

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- 28. (Original) The apparatus of claim 27, wherein the dynamic routing number is an ATM end system address (AESA) for the first end node.
- 29. (Previously Presented) A telecommunications network including a first end node and a second end node which are connected by separated call and connection layers, wherein the first end node includes connection endpoint information for a first connection end point of the first end node of the network in a routing number of the first end node, so that upon receipt of connection layer signaling routed through the connection layer from the second end node to the first end node using the routing number of the first end node, the first node uses the connection endpoint information for the first connection end point of the first end node included in the routing number of the first end node to through connect a switch in the physical layer to the first connection endpoint.
- 30. (Original) The apparatus of claim 29, wherein the connection endpoint information for the first connection endpoint is included in a vacant or unused field of the ATM end system address (AESA) for the first end node.

PLEASE ADD NEW CLAIMS AS FOLLOWS:

- 31. (New) The method of claim 1, further comprising making the association in only one of the call layer and the connection layer whereby the association is known only in the layer in which the association is made.
- 32. (New) The apparatus of claim 19, wherein the associating is performed in only one of the call layer and the connection layer, resulting in an association which is known only in the layer in which the association is made.
- 33. (New) The method of claim 9, further performing the associating in only one of the call layer and the connection layer, resulting in an association which is known only in the layer in which the association is made.